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IS 15574 (2005): Sintered Metal Materials, excluding Hard metals - Unnotched Impact Test Piece [MTD 25: Powder Metallurgical Materials and Products]

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कठोर धातुओं को छोड़कर सिंटरित धातु सामग्रियाँ — खाँचारहित संघट्ट परीक्षण खंड

Indian Standard

SINTERED METAL MATERIALS, EXCLUDING HARDMETALS — UNNOTCHED IMPACT TEST PIECE

ICS 77.160

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

May 2005

Price Group 1

Powder Metallurgical Materials and Products Sectional Committee, MTD 25

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 5754 : 1978 'Sintered metal materials, excluding hardmetals — Unnotched impact test piece' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of the Powder Metallurgical Materials and Products Sectional Committee and approval of the Metallurgical Engineering Division Council.

The text of the ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminology and conventions are, however, not identical to those used in Indian Standards. Attention is especially drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their places are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 83 Steel — Charpy impact test (U-notch)	IS 1499 : 1977 Method for charpy impact test (U-notch) for metals (*first revision*)	Technically equivalent
ISO 148 Steel — Charpy impact test (V-notch)	IS 1757 : 1988 Method for charpy impact test (V-notch) for metallic materials (*second revision*)	do

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated is to be rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

IS 15574 : 2005
ISO 5754 : 1978

Indian Standard

SINTERED METAL MATERIALS, EXCLUDING HARDMETALS — UNNOTCHED IMPACT TEST PIECE

1 SCOPE

This International Standard specifies the dimensions of an unnotched impact test piece of sintered metal materials. The test piece may be obtained directly by pressing and sintering or by machining a sintered part.

2 FIELD OF APPLICATION

This International Standard applies to all sintered metals and alloys, with the exception of hardmetals. However, for certain materials (for example, materials having low porosity or materials with high ductility), it may be more appropriate to use a notched test piece which, in this case, will give results with less scatter. (In this case, refer to ISO 83 or ISO 148.)

NOTE – For porous sintered materials, the results obtained from impact tests are not necessarily very accurate and should not be compared with results obtained from tests on solid metals.

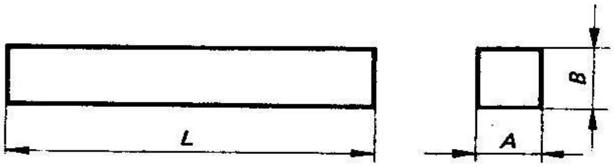
3 REFERENCES

ISO 83, *Steel – Charpy impact test (U-notch).*

ISO 148, *Steel – Charpy impact test (V-notch).*[1]

4 DIMENSIONS OF TEST PIECE

The dimensions of the test piece shall be those shown in the table.



Values in millimetres

L	*A*	*B*
55 ± 1	10 ± 0,2	10 ± 0,2

The test piece shall be marked in such a way that the direction of pressing may be identified.

The impact test shall be carried out on a Charpy impact testing machine, in accordance with ISO 83 or ISO 148.

Unless otherwise specified, the direction of impact shall be normal to the pressing direction.

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[1] At present at the stage of draft. (Revision of ISO/R 148.)

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